

**RECEIVED  
CENTRAL FAX CENTER**

MAY 19 2008

**IN THE CLAIMS:**

Please amend the claims as follows:

1. (Currently Amended) A power supply device [(1)] for energizing a modular measuring system [(2)], the modular measuring system being adapted for measuring or detecting a filling level or a pressure, the modular measuring system [(2)] comprising a modular display and adjustment unit [(3)] and a modular low power sensor unit [(4)], wherein the power supply device [(1)] is adapted to be disposed and connected electrically between the display and adjustment unit [(3)] and the low power sensor unit [(4)], enabling for the modular display and adjustment unit [(3)] and the low power sensor unit [(4)] to be energized simultaneously, and enabling data communication between the display and adjustment unit [(3)] and the low power sensor unit [(4)];

wherein the power supply device is adapted to be fitted to the low power sensor unit allowing for a power requirement of < 1.2mA at 5V.

2. (Currently Amended) The power supply device [(1)] according to claim 1, whereby the power supply device [(1)] has a housing [(5)] being adapted to be interposed between the display and adjustment unit [(3)] and the low power sensor unit [(4)].

3. (Currently Amended) The power supply device [(1)] according to claim 2, whereby an energy store [(6)] is arranged within the housing [(5)].

4. (Currently Amended) The power supply device [(1)] according to claim 3, whereby the energy store [(6)] is a battery, an accumulator, or a gold CAP.

5. (Currently Amended) The power supply device [(1)] according to claim 1, which is adapted to be fitted to [(a)] the low power sensor unit [(4)] comprising a probe for level measurement or detection and/or switching of liquids or solids having a two wire control loop, in particular a Namur interface, allowing for [(a)] the power requirement of <1.2 mA at 5 V.

6. (Currently Amended) The power supply device [(1)] according to claim 2, whereby the housing [(5)] is provided with respective attachment means [(7)] being adapted to cooperate with respective attachment means ~~(8, 9)~~ of the display and adjustment unit [(3)] and the low power sensor unit [(4)] to allow for a detachable engagement.

7. (Currently Amended) The power supply device [(1)] according to claim 3, having first and second contacting means ~~(10, 10', 11, 11')~~, whereby the first contacting means ~~(10, 10')~~ are provided for connection of the energy store [(6)] to the display and adjustment unit [(3)] and the low power sensor unit [(4)], and the second contacting means [(11, 11')] are provided for data lines which are connected through the power supply device [(1)].

8. (Currently Amended) The power supply device [(1)] according to claim 7, whereby the energy store [(6)] is connectable via the first contacting means [(10)] to the input keys [(19)] of the display and adjustment unit [(3)].

9. (Currently Amended) The power supply device [(1)] according to claim 7, whereby the energy store [(6)] is connectable via the first contacting means [(10')] to a microcontroller [(12)] of the low power sensor unit [(4)].

10. (Currently Amended) The power supply device [(1)] according to claim 7, whereby the data lines of a display controller [(13)] of the display and adjustment unit [(3)] are connectable through the power supply device [(1)] via the second contacting means ~~(11, 11')~~ to the microcontroller [(12)] of the low power sensor unit [(4)].

11. (Currently Amended) The power supply device [(1)] according to claim 1, which is adapted such that the display and adjustment unit [(3)] is attachable to the power supply device [(1)] in at least two positions.

12. (Currently Amended) A modular system comprising a modular display and adjustment

unit [(3)], a modular power supply device [(1)], and a modular low power sensor unit [(4)] which are detachably connectable to each other and which are adapted to be brought into an electrical contact with each other, whereby the power supply device [(1)] energizes both the display and adjustment unit [(3)] as well as the low power sensor unit [(4)] simultaneously, when the modules are connected to each other.

13. (Currently Amended) The modular system according to claim 12, whereby the low power sensor unit [(4)] comprises a probe for level measurement or detection and/or switching of liquids or solids, the probe comprising a two wire control loop, in particular a Namur interface, having a power requirement of <1.2 mA at 5 V.

14. (Currently Amended) The modular system according to claim 12, whereby the low power sensor unit [(4)] can be adjusted by means of the display and adjustment unit [(3)] with the power supply unit [(1)] interposed in between.

15. (Currently Amended) The modular system according to claim 12, whereby a controller [(13)] accommodated in the display and adjustment unit [(3)] and a microcontroller [(12)] accommodated in the low power sensor unit [(4)] communicate with each other with the power supply unit [(1)], having contacting means ~~(12, 12')~~ connecting the respective data lines through the housing [(5)], connected in between.

16. (Currently Amended) The modular system according to claim 12, further comprising an A/D converter [(14)] being either internal or external to the microcontroller [(12)] of the low power sensor unit [(4)], which reads the voltage of the power supply device [(1)] to close a circuit upon detecting a predetermined voltage value, to thereby connect the power supply unit [(1)] to the microcontroller [(12)].

17. (Currently Amended) The modular system according to claim 12, whereby the display and adjustment unit [(3)] and the power supply device [(1)] are adapted to be attached to each

other in at least two positions.

18. (Currently Amended) A sensor unit [(15)], comprising a low power sensor operating in the range below 1.2 mA at 5 V, being built as a module, and being adapted to be brought into detachable engagement with a modular display and adjustment unit [(3)], and being connectable electrically thereto, whereby the sensor unit [(15)] comprises an energy store [(16)] and a power supply [(17)] to allow for energizing both the sensor unit [(15)] as well as the display and adjustment unit [(3)], when attached and connected electrically to the low power sensor unit [(15)].

19. (Currently Amended) The sensor unit [(15)] according to claim 18, whereby the energy store [(16)] is an accumulator or a gold CAP, which is charged by a step up [(17)] and a controllable power source [(18)], whereby the charging current can be varied depending on the resist current of the sensor.

20. (Currently Amended) The sensor unit [(15)] according to claim 18, comprising further a microcontroller [(19)], querying cyclically whether the display and adjustment unit [(3)] is attached or not, and connecting the display and adjustment unit [(3)] to the internal power supply, in case the presence of the display and adjustment unit [(3)] is detected.

21. (Currently Amended) The sensor unit [(15)] according to claim 18, whereby the microcontroller [(19)] monitors the operating voltage of the energy store [(16)], to deenergize the display and adjustment unit [(3)] upon the detection of the operating voltage falling below a predetermined threshold value, and recharges the energy store [(16)], whereby the power supply of the measuring operation is not interrupted.

22. (Currently Amended) The sensor unit [(15)] according to claim 18, whereby the microcontroller energizes the display and adjustment unit [(3)] upon the detection of a minimal operating value of the energy store [(16)].